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Description

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connecting Insulation displacement contact, and a terminal

FIELD OF THE INVENTION
The invention invention (relates to an insulation displacement Contact More preferably, it relates to an insulation displacement Contact acty, for example) for terminal strips, which has a slotted, sprung contact region as a contact-making slot on a connecting bracket, which contact region is a connecting bracket,

surrounded and reinforced by an outer spring slip. Such an insulation displacement contact is known \ DE-C1-10 known an

197 32 18281. , for example.

discloses two-part insulation U1 а 25 981 in which two separate displacement contact element, contact elements having a contact-making slot are used. These surround both sides of a conductor with which and pinch this conductor be made, between them. When contact has been made, contact element in this case surrounds the other, like a spring clip. The respective contact-making slots are like funnels their entry in in this case widened region, forming an insulation displacement contact. this embodiment, the insulation displacement contacts must be operated like tongs once the conductor has been inserted.

displacement insulation In described, known contact, the material of the spring clip can be matched to the spring characteristics and the contact region can be matched, by shaping and the material coming to a compromise in order to achieve a cutting region and a contact region.

SUMMARY OF THE INVENTION

The invention is based on the object of developing the 35 described insulation displacement contact further such

AMENDED SHEET

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cutting characteristics and contact its that characteristics can be even better matched.

The described object is achieved by an insulation displacement contact as claimed in claim 1. In this case, the spring clip is designed to form an insulation displacement blade in at least one end region. This results in a cutting blade, or initial cutting blade in eomposed of mechanically an initial cutting region, particularly hard material, so that even cold, brittle insulation on a conductor can easily be cut down to a conductive core. The shape of the contact region in the interior of the contact-making slot can also be matched to achieve particularly good contact characteristics. The contact-making slot can thus be formed with blunt contact zones in order to protect a contact cores. since to the fact theb the cutting blades which are formed from the spring clip, can be matched not only in terms of the initial cutting characteristics but also, if required, in terms of their secondary cutting characteristics.

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The spring clip and cutting blades which are formed from the spring clip may be formed from suitably hard material. If required, the cutting blades may be specially hardened. The contact region may be formed from electrically highly conductive material.

The insulation displacement contact can advantageously be designed for use in a connecting terminal, in particular in a terminal strip, such that each connecting bracket forms a contact-making slot at each of its ends.

The spring clip and/or connecting bracket can advantageously be designed such that the limbs of the spring clip secure the contact-making slot in its position.

A connecting terminal having at least one insulation displacement contact can advantageously be provided according to one of the embodiments described above. In particular, a terminal strip having at least one insulation displacement contact can be provided in the embodiments described above.

BRISE DESCRIPTION OF THE TRAWINGS

The invention will now be explained in more detail with reference to an exemplary embodiment which is illustrated, in perspective form, in the drawing, and in which:

The drawing illustrates OF THE PRESERVED EMBODIMENTS

a slotted, sprung contact region is in each case formed as a contact-making slot 2 on a connecting bracket 1. This contact region is surrounded by an outer spring clip 3, reinforcing its spring effect. The spring clip 3 is designed to form cutting blades 4 in at least one end region, in the exemplary embodiment) in both end regions. The cutting blades 4 form a V-shaped entry region for initial cutting and for cutting open the insulation of a conductor to be inserted and to be

connected. This can be followed by a secondary cutting region and also by the contact region itself. In the exemplary embodiment, a subsequent

shown in the drawing

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cutting region 5 is followed by a contact region 6, which is advantageously formed to be blunt and to be composed of electrically highly conductive material, thus protecting a conductor core. A secondary cutting region 5 may be in the form not only of the spring clip but also in the form of the connecting bracket 1, depending on the specific requirements.

The spring clip 3 and connecting bracket 1 in the exemplary embodiment have recesses and tongues such that the limbs of the spring clip 1 secure the contact-making slot 2 in its position. This prevents the limbs from being tilted and deflected into a number of planes, even when a number of conductors are inserted.

In the exemplary embodiment, the connecting bracket 1 forms a contact-making slot 2 at each of its ends.

A connecting terminal having at least one insulation displacement contact can advantageously be formed in one of the described embodiments. In particular, a terminal strip having screwless connections can be formed in this way.

VARIATIONS